

**DISK DRIVE EMPLOYING A SPINDLE MOTOR COMPRISING A LOCKING
SPRING ARM DISENGAGED THROUGH STATOR COIL FLUX**

ABSTRACT OF THE DISCLOSURE

A disk drive is disclosed comprising a disk, a head actuated radially over the disk, and a spindle motor for rotating the disk. The spindle motor comprises a stator having at least one stator coil wrapped around a stator tooth. The spindle motor further comprises a hub rotated by the stator when current is applied to the stator coil, and a locking spring arm having a fixed base. The locking spring arm engages the hub when no current is applied to the stator coil, and the locking spring arm disengages from the hub when current applied to the stator coil generates a magnetic flux which pulls the locking spring arm away from the hub.